
Appendix B: Product integrity

This chapter presents information about Meridian Integrated Conference Bridge (MICB) reliability, environmental specifications, and electrical regulatory standards.

Reliability

Reliability is measured by the Mean Time Between Failures (MTBF).

Mean time between failures (MTBF)

The MICB card Mean Time Between Failure (MTBF) is better than 88 years.

Environment specifications

Measurements of performance under the temperature, shock, and vibration given in the following tables were made under test conditions as described.

Temperature-related conditions

Refer to [Table 20](#) for a display of acceptable temperature and humidity ranges for the MICB.

Table 20
MICB environmental specifications

Specification	Minimum	Maximum
Normal Operation		
Recommended	15° C	30° C
Relative humidity	20%	30% (non-condensing)
Absolute	10 ° C	45° C
Relative humidity	20% to	80% (non-condensing)
Rate of change	Less than 1° C per 3 minutes	
Storage		
Long Term	-20° C	60° C
Relative Humidity	5%	95% (non-condensing)
	-40° C to 70° C, non-condensing	
Short Term (less than 72 hr)	-40° C	70° C
Temperature Shock		
In 3 minutes	-40° C	25° C
In 3 minutes	70° C	25° C
	-40° to 70° C, non-condensing	

Electrical regulatory standards

The following three tables list the safety and electro-magnetic compatibility regulatory standards for the MICB, listed by geographic region. Specifications for the MICB meet or exceed the standards listed in these regulations.

Safety

[Table 21](#) provides a list of safety regulations met by the MICB, along with the type of regulation and the country/region covered by each regulation.

Table 21
Safety regulations

Regulation Identifier	Regulatory Agency
UL 1459	Safety, United States, CALA
CSA 22.2 225	Safety, Canada
EN 41003	Safety, International Telecom
EN 70950/IEC 950	Safety, International
BAKOM SR 784.103.12/4.1/1	EMC/Safety (Switzerland)
AS3260, TS001 - TS004, TS006	Safety/Network (Australia)
JATE	Safety/Network (Japan)

Electro-magnetic compatibility (EMC)

Table 22 lists electro-magnetic emissions regulations met by the MICB card, along with the country's standard that lists each regulation.

Table 22
Electro-Magnetic Emissions

Regulation Identifier	Regulatory Agency
FCC part 15 Class A	United States Radiated Emissions
CSA C108.8	Canada Radiated Emissions
EN50081-1	European Community Generic Emission Standard
EN55022/CISPR 22 CLASS B	Radiated Emissions (Basic Std.)
BAKOM SR 784.103.12/4.1/1	EMC/Safety (Switzerland)
SS-447-20-22	Sweden EMC standard
AS/NZS 3548	EMC (Australia/New Zealand)
NFC 98020	France EMC standard

Table 23 lists electro-magnetic immunity regulations met by the MICB card, along with the country's standard that lists each regulation.

Table 23
Electro-Magnetic Immunity

Regulation Identifier	Regulatory Agency
CISPR 22 Sec. 20 Class B	I/O conducted noise
IEC 801-2 (level 4)	ESD (Basic Standard)
IEC 801-3 (level 2)	Radiated Immunity (Basic Standard)
IEC 801-4 (level 3)	Fast transient/Burst Immunity (Basic Standard)
IEC 801-5 (level 4, preliminary)	Surge Immunity (Basic Standard)
IEC 801-6 (preliminary)	Conducted Disturbances (Basic Standard)
BAKOM SR 784.103.12/4.1/1	EMC/Safety (Switzerland)
SS-447-20-22	Sweden EMC standard
AS/NZS 3548I	EMC (Australia/New Zealand)
NFC 98020	France EMC standard